

## CLAIMS

1 1. A GPRS capable mobile terminal, comprising:  
2 processing circuitry for receiving and transmitting  
3 data and voice signals; and

4 QoS logic circuitry for determining an implied QoS  
5 rating based upon a TLLI number received from a base  
6 station.

1 2. The GPRS capable mobile terminal of claim 1  
2 further comprising audio processing circuitry for  
3 converting analog voice signals into communication  
4 signals and for converting communication signals into  
5 analog voice signals.

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1 3. The GPRS capable mobile terminal of claim 2  
2 further comprising a microphone coupled to provide analog  
3 voice signals to the audio processing circuitry .

1 4. The GPRS capable mobile terminal of claim 2  
2 further comprising a speaker coupled to receive analog  
3 voice signals from the audio processing circuitry.

1 5. The GPRS capable mobile terminal of claim 1  
2 wherein the QoS logic circuitry defines logic that  
3 prompts the mobile terminal to transmit a previously

4 received TLLI number to a base station each time it  
5 registers its presence.

1 6. The GPRS capable mobile terminal of claim 1  
2 wherein the QoS logic circuitry defines logic that  
3 prompts the mobile terminal to transmit a previously  
4 received TLLI number to a base station each time it  
5 requests resources to transmit communication signals.

1 7. The GPRS capable mobile terminal of claim 1  
2 wherein the QoS logic circuitry defines logic that  
3 prompts the mobile terminal to determine a QoS rating  
4 assigned to it based upon a value of a received TLLI  
5 number and, responsive thereto, to transmit communication  
6 signals at a data rate that corresponds to the determined  
7 QoS rating.

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1        8.    A method in a mobile terminal for determining  
2    an assigned quality of service (QoS) rating and for  
3    requesting system resources, comprising:  
4        receiving a temporary logical link identifier (TLLI)  
5    within a Gb interface signal from a base station, which  
6    TLLI was generated by a serving GPRS support node; and  
7        inferring an assigned QoS rating by analyzing the  
8    value of the TLLI to determine a TLLI grouping and  
9    corresponding QoS rating. .

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1        9.    The method of claim 8 wherein the mobile  
2    terminal determines that it has been assigned a first QoS  
3    rating if the TLLI has an odd value and a second QoS  
4    rating if the TLLI has an even value.

1        10.   The method of claim 8 wherein the mobile  
2    terminal determines that it has been assigned a first QoS  
3    rating if the TLLI has an even value and a second QoS  
4    rating if the TLLI has an odd value.

1 11. The method of claim 8 wherein the mobile  
2 terminal determines that it has been assigned a first QoS  
3 rating if the TLLI has a value within a first range of  
4 values and a second QoS rating if the TLLI has a value in  
5 a second range of values.

1 12. The method of claim 8 further including the  
2 step of transmitting the received TLLI number to the base  
3 station each time the mobile terminal requests a  
4 communication link for transmitting communication  
5 signals. B

1 13. The method of claim 8 further including the  
2 step of transmitting the received TLLI number to a new  
3 base station each time the mobile terminal registers its  
4 presence with the new base station.

1 14. A GPRS capable mobile terminal, comprising:  
2 radio circuitry for transmitting and receiving  
3 communication signals over a wireless medium;  
4 audio circuitry for converting audio signals to  
5 sound and sound signals to audio; and  
6 logic circuitry for determining a quality of service  
7 (QoS) rating based upon a received communication signal's  
8 numerical characteristics.

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1 15. The GPRS capable mobile terminal of claim 14  
2 wherein the logic circuitry determines the QoS rating  
3 based upon the numerical characteristics of a received  
4 TLLI number.

1 16. The GPRS capable mobile terminal of claim 14  
2 wherein the QoS rating is characterized by whether the  
3 received communication signal's numerical characteristic  
4 is even or odd.

1        17. The GPRS capable mobile terminal of claim 14  
2 wherein the QoS rating is characterized by whether the  
3 received communication signal's numerical characteristic  
4 is within one of a plurality of groups of numbers wherein  
5 each group of numbers represents a QoS rating.

1        18. The GPRS capable mobile terminal of claim 14  
2 wherein the mobile terminal transmits its QoS rating to a  
3 base station every time it requests communication  
4 resources.

1        19. The GPRS capable mobile terminal of claim 14  
2 wherein the mobile terminal transmits a number whose  
3 characteristic reflects its QoS rating to a base station  
4 every time it requests communication resources.

1        20. The GPRS capable mobile terminal of claim 19  
2 wherein the number is a TLLI number.

1 21. A wireless transmitter, comprising:  
2 circuitry for receiving a signal comprising a number  
3 reflecting a QoS rating and for determining the QoS  
4 rating for wireless transmissions based upon a  
5 characteristic of the number; and  
6 circuitry for transmitting, over a wireless  
7 communication link, a second signal comprising the number  
8 reflecting the QoS rating and for determining the QoS  
9 rating for wireless transmissions based upon a  
10 characteristic of the number.

1 22. The wireless transmitter of claim 21 wherein  
2 the number is a TLLI number.